

Appendix table 1-19

**Preparation of public middle and high school mathematics and science teachers for teaching in their field, by minority enrollment and school poverty level: Academic years 2003–04 and 2007–08**

(Percent distribution)

Teaching field/school characteristic	Academic year 2003–04				Academic year 2007–08			
	In field	Related field	General education	None of these	In field	Related field	General education	None of these
<b>Middle school</b>								
Mathematics	53.5	3.9	37.5	5.1	64.3	1.6	30.6	3.4
Minority enrollment (%)								
0–5	72.9	0.2	25.2	1.7	66.5	0.0	32.6	1.0
>5–45	49.6	0.8	44.2	5.5	67.9	0.4	29.1	2.6
>45	51.5	8.6	34.2	5.7	60.9	2.9	31.6	4.6
School poverty level (%) <sup>a</sup>								
0–10	58.2	0.4	38.4	3.0	75.7	3.5	20.8	0.0
>10–50	56.4	1.3	38.4	3.8	61.0	0.4	35.4	3.2
>50	47.4	9.3	35.5	7.8	64.9	2.6	27.8	4.7
Science	67.0	na	29.2	3.8	69.7	na	27.0	3.3
Minority enrollment (%)								
0–5	64.3	na	33.8	1.9	70.8	na	28.9	0.2
>5–45	65.4	na	30.9	3.8	70.8	na	27.4	1.8
>45	70.1	na	25.4	4.5	68.1	na	26.2	5.7
School poverty level (%) <sup>a</sup>								
0–10	65.9	na	34.0	0.1	63.0	na	33.9	3.1
>10–50	65.4	na	30.1	4.4	70.1	na	28.4	1.5
>50	70.6	na	25.5	4.0	70.2	na	23.7	6.2
<b>High school</b>								
Mathematics	87.4	2.0	3.1	7.5	88.0	1.2	3.4	7.4
Minority enrollment (%)								
0–5	91.3	0.7	4.9	3.2	94.6	0.3	3.2	1.9
>5–45	90.2	0.9	2.5	6.4	90.7	0.4	3.5	5.4
>45	82.8	3.8	3.0	10.4	83.2	2.4	3.3	11.1
School poverty level (%) <sup>a</sup>								
0–10	92.2	0.4	3.0	4.4	93.8	0.1	2.7	3.5
>10–50	87.5	2.6	3.1	6.8	89.1	1.1	3.2	6.6
>50	82.9	1.8	3.3	12.0	81.5	2.5	4.0	12.0
Biology/life sciences	91.9	3.6	1.3	3.2	93.2	3.9	0.9	2.0
Minority enrollment (%)								
0–5	95.6	2.9	0.9	0.6	96.9	1.0	1.2	0.9
>5–45	92.3	3.7	1.2	2.8	91.2	4.7	1.3	2.8
>45	89.9	3.9	1.5	4.8	94.9	3.5	0.3	1.2
School poverty level (%) <sup>a</sup>								
0–10	94.8	3.9	0.8	0.4	97.5	0.8	0.4	1.4
>10–50	92.4	3.0	1.4	3.2	92.0	4.8	1.0	2.1
>50	87.8	5.4	1.6	5.3	92.6	4.3	1.1	1.9
Physical sciences	78.1	19.6	0.9	1.5	81.6	15.4	1.2	1.8
Minority enrollment (%)								
0–5	76.3	22.1	0.0	1.5	86.0	12.1	0.4	1.5
>5–45	79.4	17.9	1.3	1.4	83.9	15.0	0.8	0.2
>45	77.0	20.7	0.8	1.5	77.3	17.1	1.9	3.7

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(Percent distribution)

Teaching field/school characteristic	Academic year 2003–04				Academic year 2007–08			
	In field	Related field	General education	None of these	In field	Related field	General education	None of these
School poverty level (%) <sup>a</sup>								
0–10	85.9	11.7	1.1	1.3	87.5	10.6	1.9	0.0
>10–50	75.3	22.3	1.0	1.4	82.7	14.2	0.9	2.2
>50	76.7	22.1	0.6	0.7	75.2	21.3	1.2	2.3

na = not applicable

<sup>a</sup>School poverty level is percentage of students in school qualifying for free/reduced-price lunch.

NOTE: Percentages may not add to 100 because of rounding.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2011) of 2003–04 and 2007–08 Schools and Staffing Survey, National Center for Education Statistics.

*Science and Engineering Indicators 2012*